

FIG. 1

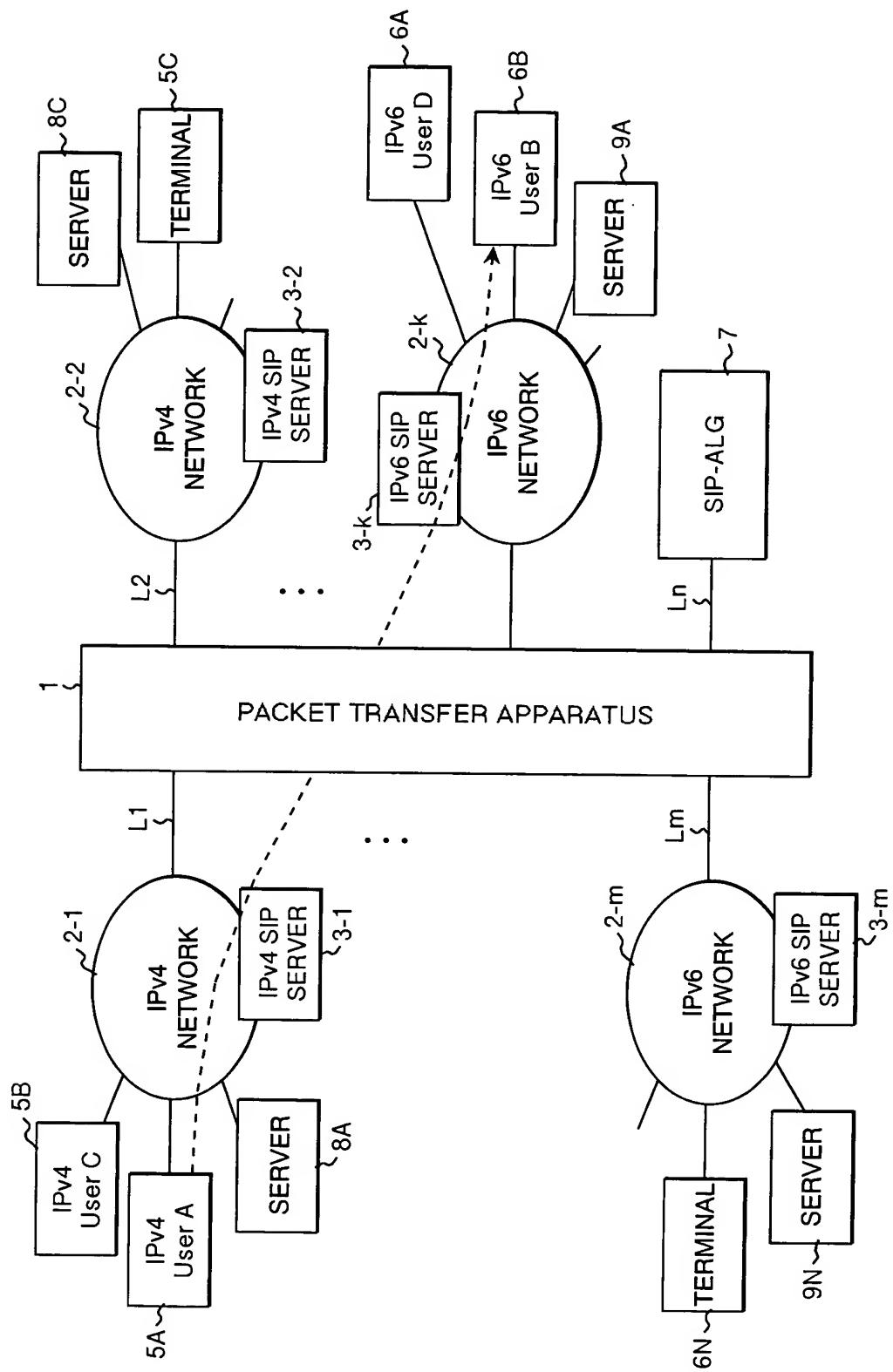


FIG. 2

PACKET TRANSFER APPARATUS 1

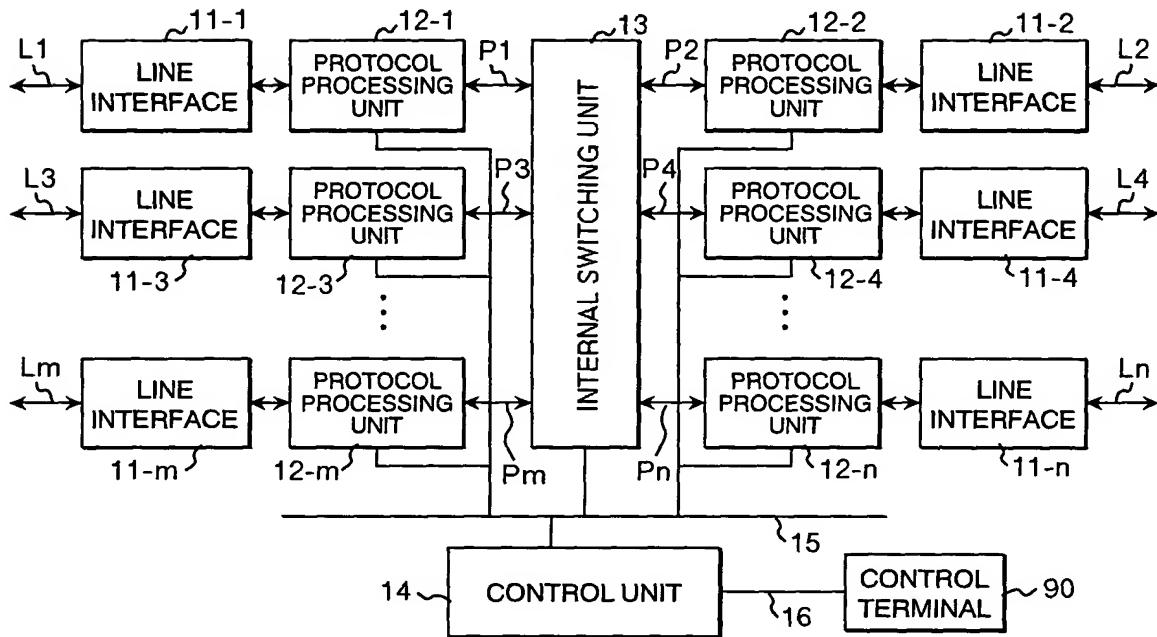
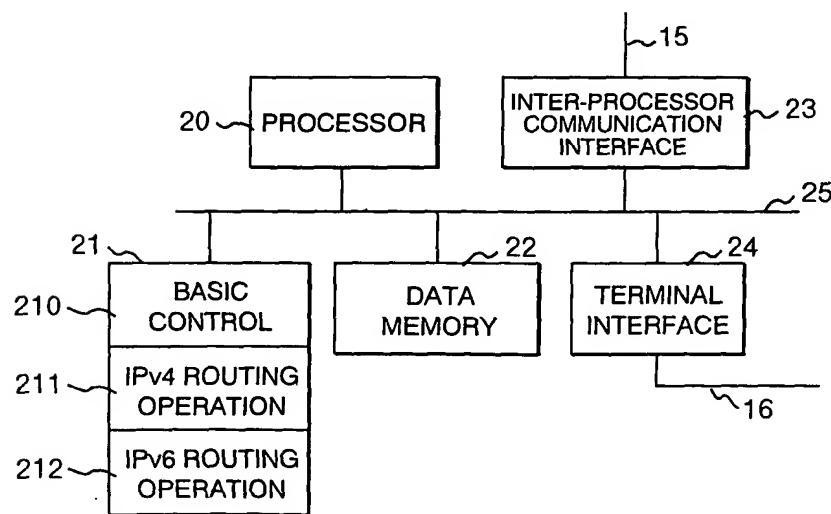


FIG. 3

CONTROL UNIT 14



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FIG. 4

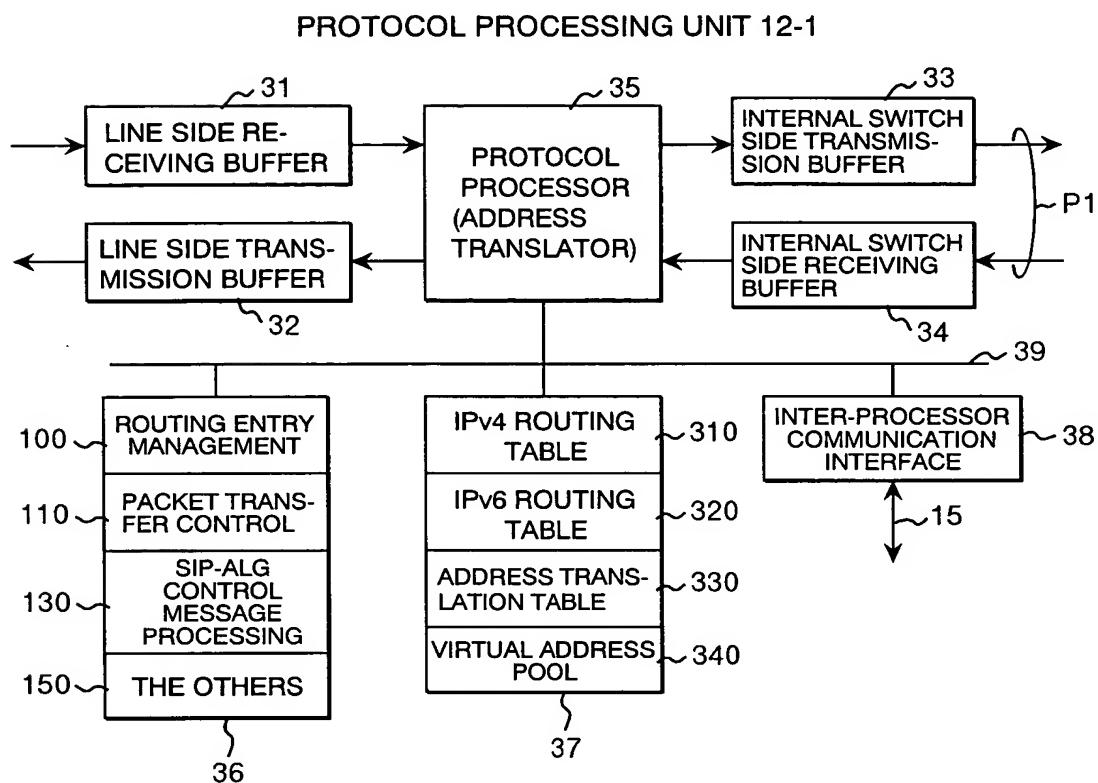
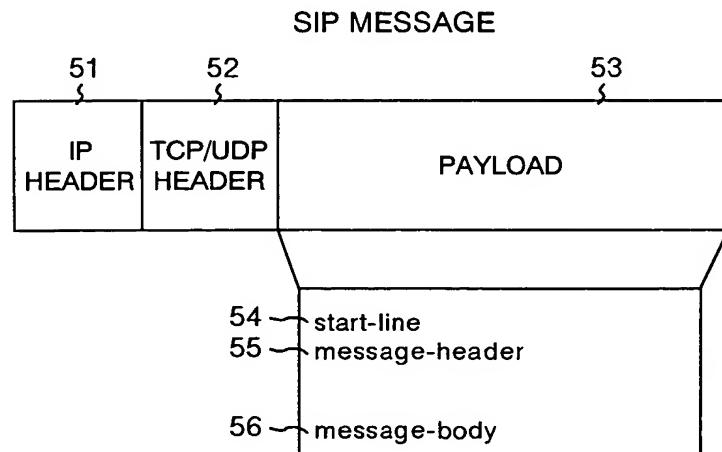


FIG. 5



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FIG. 6

IPv4 PACKET HEADER

VERSION	HEADER LENGTH	SERVICE TYPE	PACKET LENGTH	
ID		FLAG	FRAGMENT OFFSET	
TIME TO LIVE	PROTOCOL TYPE	HEADER CHECK SUM		
SOURCE ADDRESS				~ 61v4
DESTINATION ADDRESS				~ 62v4
OPTION			PADDING	

FIG. 7

IPv6 PACKET

VERSION	TRAFFIC CLASS	FLOW LABEL		
PAYLOAD LENGTH		NEXT HEADER	HOP LIMIT	
SOURCE ADDRESS				~ 61v6
DESTINATION ADDRESS				~ 62v6
EXTENSION HEADER				

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FIG. 8

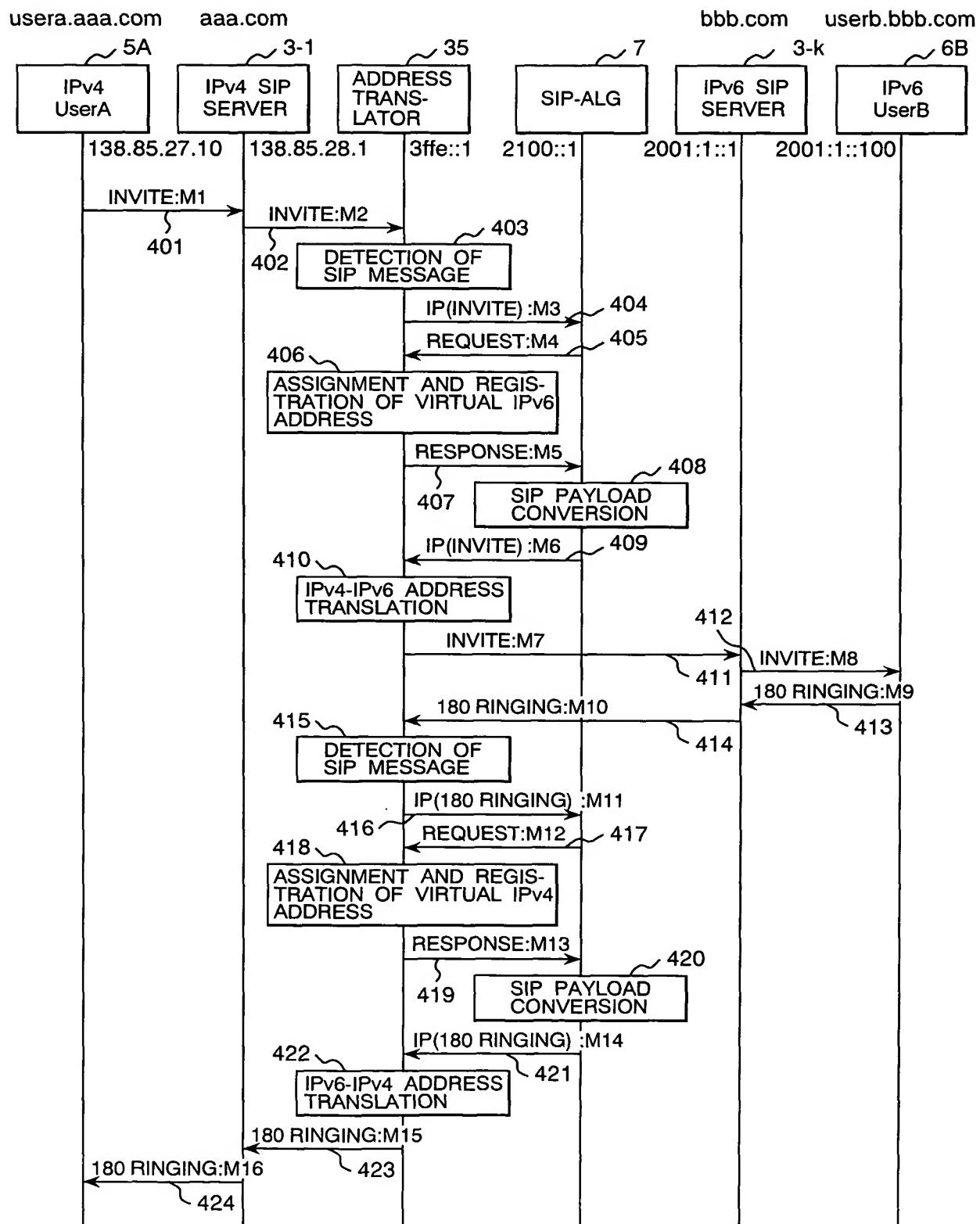


FIG. 9

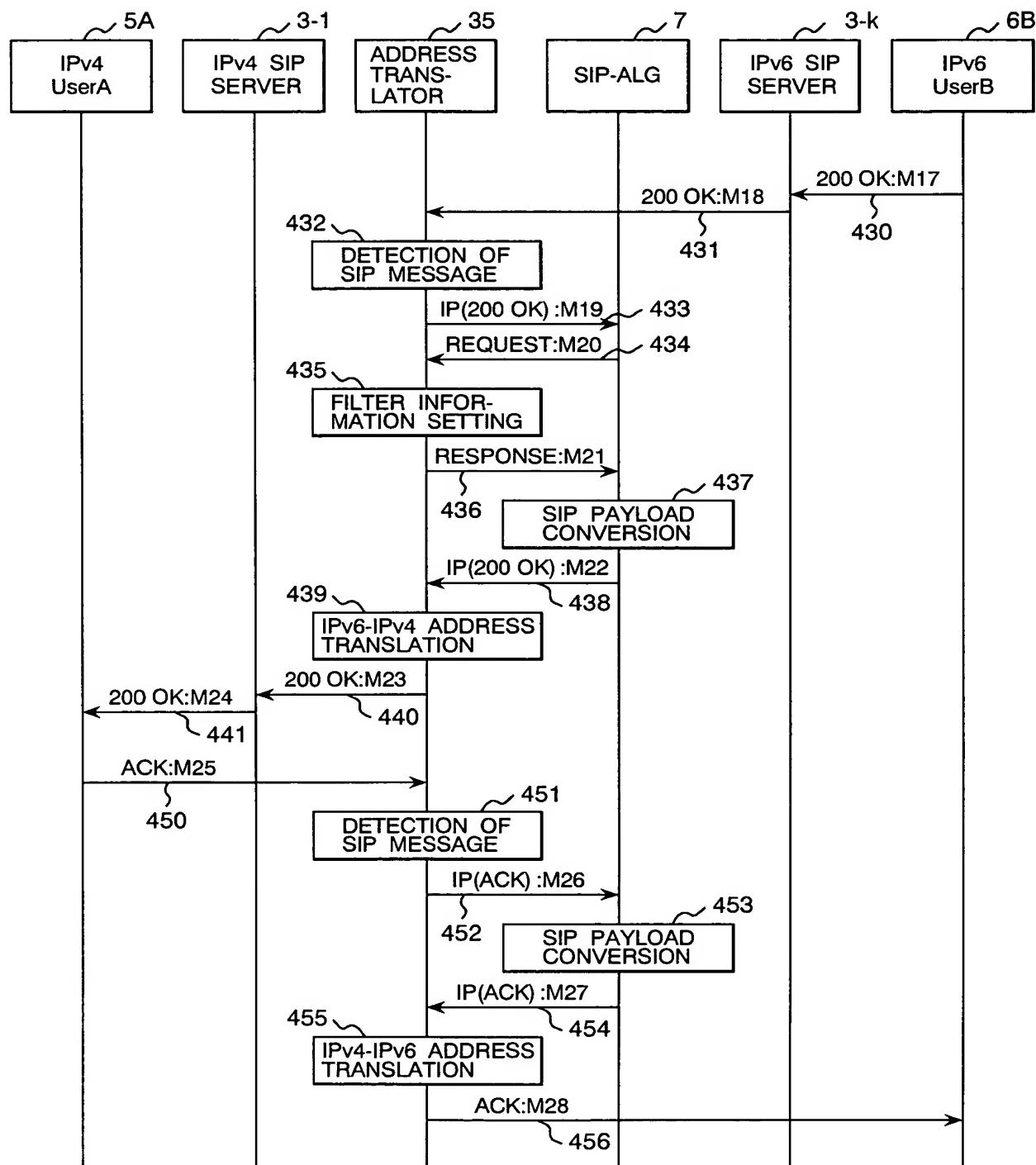


FIG. 10

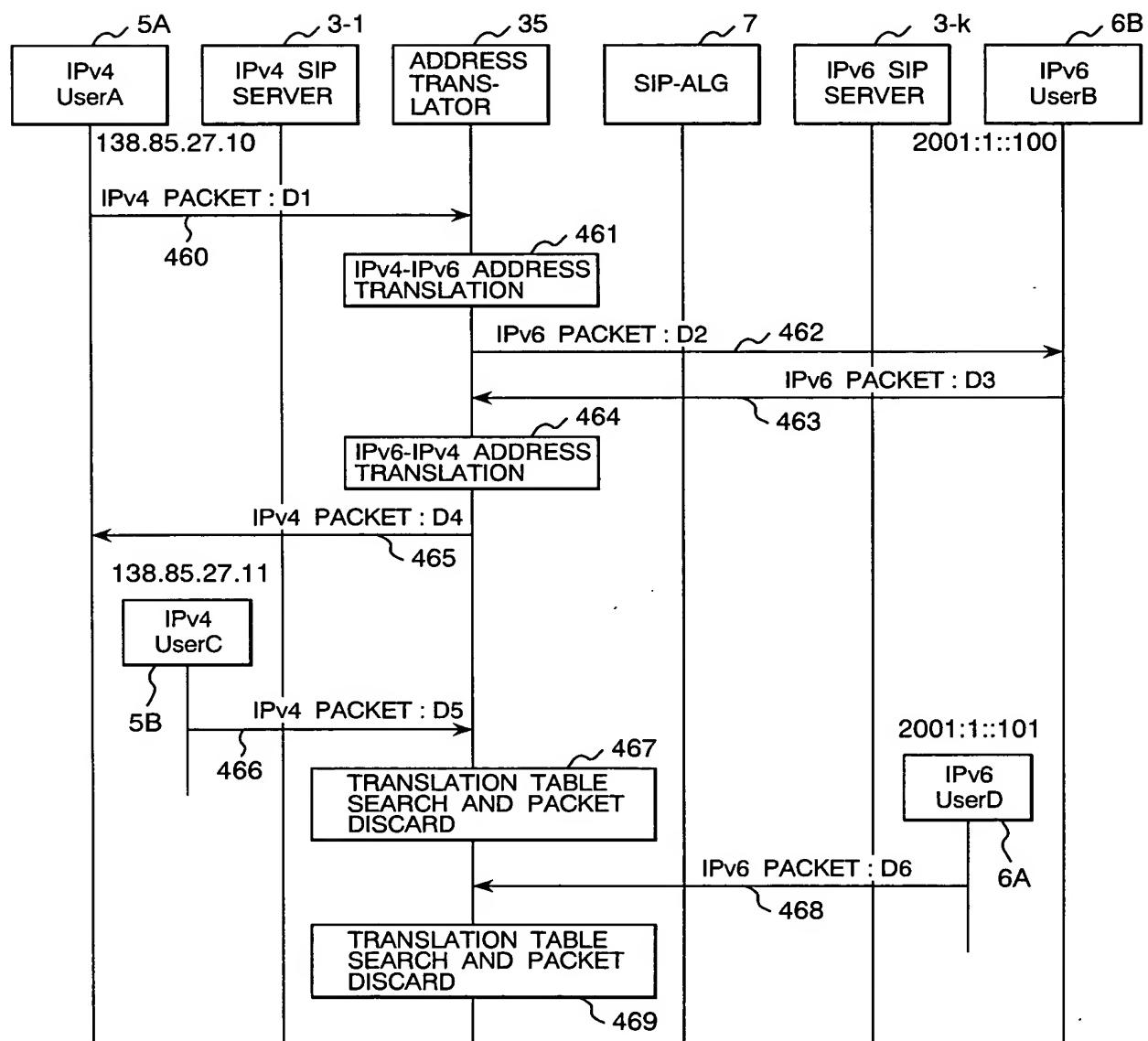
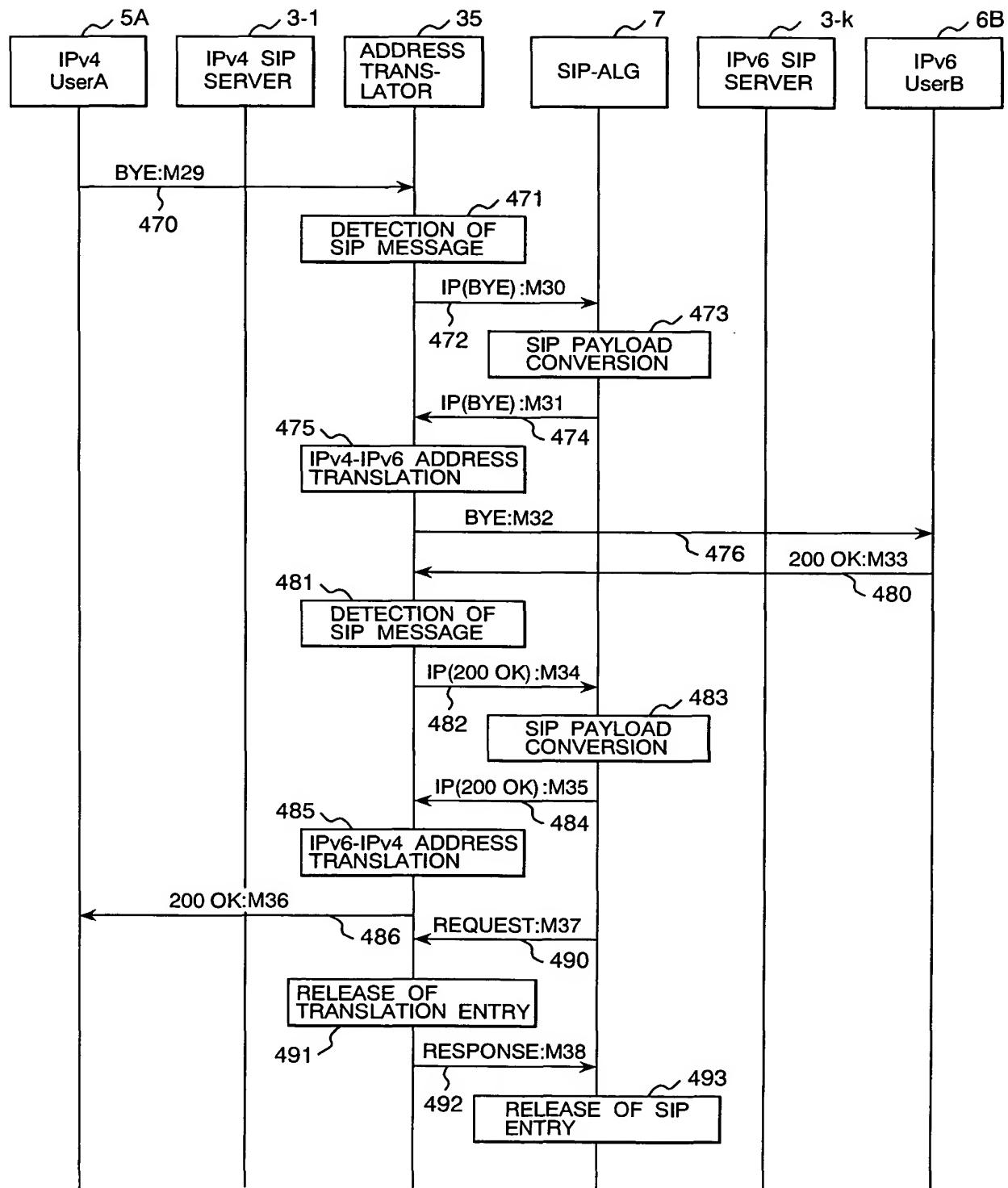


FIG. 11



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ADDRESS TRANSLATION TABLE 330

331		332		333		334		335		336	
No.	IPv4 address	IPv6 address		Validity	Source address	Type of Port	Source port	Type of Port	Source address	Type of Port	Source port
1	<u>138.90.0.1</u>	<u>2001:1::1</u>		0							EN1
2	138.85.28.1	<u>2002::8a55:1c01</u>		0							EN2
3											EN3
4											EN4
No.	IPv4 address	IPv6 address		Validity	Source address	Type of Port	Source port	Type of Port	Source address	Type of Port	Source port
1	<u>138.90.0.1</u>	<u>2001:1::1</u>		0							EN1
2	138.85.28.1	<u>2002::8a55:1c01</u>		0							EN2
3	138.85.27.10	<u>2002::8a55:1b02</u>		1							EN3
4	<u>138.90.0.2</u>	<u>2001:1::100</u>		1	0.0.0.0						EN4
No.	IPv4 address	IPv6 address		Validity	Source address	Type of Port	Source port	Type of Port	Source address	Type of Port	Source port
1	<u>138.90.0.1</u>	<u>2001:1::1</u>		0							EN1
2	138.85.28.1	<u>2002::8a55:1c01</u>		0							EN2
3	138.85.27.10	<u>2002::8a55:1b02</u>		1	2001:1::100	UDP	Any		20002,20003		EN3
4	<u>138.90.0.2</u>	<u>2001:1::100</u>		1	138.85.27.10	UDP	Any		41000,41001		EN4

FIG. 12A

FIG. 12B

FIG. 12C

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FIG. 13

INVITE PACKET M1

```
DA: 138.85.28.1 #IPv4 SIP Server
SA: 138.85.27.10 #User A
UDP dst port:5060
UDP src port:5060
----- SIP message -----
54 ~
INVITE sip:UserB@bbb.com SIP/2.0
Via: SIP/2.0/UDP/ usera.aaa.com.5060
From: Laura <SIP:UserA@aaa.com>
To: Bob <SIP:UserB@bbb.com>
Call-ID: 12345678@usera.aaa.com
CSeq: 1 INVITE
Contact: Laura <SIP:UserA@usera.aaa.com>
Content-type: application/sdp
Content-length:
55 ~
56 ~
v=0
o=Laura 289123456 289123456 IN IP4 usera.aaa.com
s=Let us talk for while
c=IN IP4 138.85.27.10
t=0 0
m=audio 20002 RTP/AVP 0
```

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FIG. 14

INVITE PACKET M2

```
DA: 138.90.0.1 #Virtual IPv4 Address of IPv6 SIP Server
SA: 138.85.28.1 #IPv4 SIP Server
UDP dst port:5060
UDP src port:5060
----- SIP message -----
INVITE sip:UserB@bbb.com SIP/2.0
Via: SIP/2.0/UDP/ aaa.com
Via: SIP/2.0/UDP/ usera.aaa.com.5060
From: Laura < SIP:UserA@aaa.com>
To: Bob < SIP:UserB@bbb.com>
Call-ID: 12345678@usera.aaa.com
CSeq: 1 INVITE
Contact: Laura < SIP:UserA@usera.aaa.com>
Content-type: application/sdp
Content-length:

v=0
o=UserA 289123456 289123456 IN IP4 usera.aaa.com
s=Let us talk for while
c=IN IP4 138.85.27.10
t=0 0
m=audio 20002 RTP/AVP 0
```

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FIG. 15

IP (INVITE) PACKET M3

DA: 2100::1 #SIP-ALG
SA: 3ffe::1 #Address Translator
UDP dst port: 55000
UDP src port: 55001

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DA: 138.90.0.1 #Virtual IPv4 Address of IPv6 SIP Server
SA: 138.85.28.1 #IPv4 SIP Server
UDP dst port: 5060
UDP src port: 5060
----- SIP message -----
INVITE sip:UserB@bbb.com SIP/2.0
Via: SIP/2.0/UDP/ aaa.com
Via: SIP/2.0/UDP/ usera.aaa.com.5060
From: Laura < SIP:UserA@aaa.com >
To: Bob < SIP:UserB@bbb.com >
Call-ID: 12345678@usera.aaa.com
CSeq: 1 INVITE
Contact: Laura < SIP:UserA@usera.aaa.com >
Content-type: application/sdp
Content-length:

v=0
o=UserA 289123456 289123456 IN IP4 usera.aaa.com
s=Let us talk for while
c=IN IP4 138.85.27.10
t=0 0
m=audio 20002 RTP/AVP 0

M2

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FIG. 16

REQUEST PACKET M4

```
DA: 3ffe::1 #Address Translator
SA: 2100::1 #SIP-ALG
UDP dst port:56000
UDP src port:56001
----- USER DATA -----
message: Virtual IPv6 address request
IPv4 Address: 138.85.27.10 #IPv4 Address of User A
```

FIG. 17

RESPONSE PACKET M5

```
DA: 2100::1 #SIP-ALG
SA: 3ffe::1 #Address Translator
UDP dst port:56001
UDP src port:56000
----- USER DATA -----
message: virtual ipv6 address response
result: OK
Virtual IPv6 Address: 2002::8a55:1b0a #User A
```

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FIG. 18

IP (INVITE) PACKET M6

<p><u>DA: 3ffe::1</u> <u>SA: 2100::1</u> <u>UDP dst port: 55001</u> <u>UDP src port: 55000</u></p>
<p>DA: 138.90.0.1 #Virtual IPv4 Address of IPv6 SIP Server SA: 138.85.28.1 #IPv4 SIP Server UDP dst port: 5060 UDP src port: 5060 ----- SIP message ----- INVITE sip:UserB@bbb.com SIP/2.0 Via: SIP/2.0/UDP/aaa.com Via: SIP/2.0/UDP/ usera.aaa.com.5060 From: Laura < SIP:UserA@aaa.com > To: Bob < SIP:UserB@bbb.com > Call-ID: 12345678@usera.aaa.com CSeq: 1 INVITE Contact: Laura < SIP:UserA@usera.aaa.com > Content-type: application/sdp Content-length: v=0 o= UserA 289123456 289123456 IN IP4 usera.aaa.com s= Let us talk for while c= IN IP6 2002::8a55:1b0a #Virtual IPv6 Address of User A t= 0 m= audio 20002 RTP/AVP 0</p>

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FIG. 19

INVITE PACKET M7

```
DA: 2001:1::1 #IPv6 SIP Server
SA: 2002::8a55:1c01 #Virtual IPv6 Address of IPv4 SIP
                      Server
UDP dst port:5060
UDP src port:5060
----- SIP message -----
INVITE sip:UserB@bbb.com SIP/2.0
Via: SIP/2.0/UDP/ aaa.com
Via: SIP/2.0/UDP/ usera.aaa.com.5060
From: Laura < SIP:UserA@aaa.com >
To: Bob < SIP:UserB@bbb.com >
Call-ID: 12345678@usera.aaa.com
CSeq: 1 INVITE
Contact: Laura < SIP:UserA@usera.aaa.com >
Content-type: application/sdp
Content-length:

v=0
o=UserA 289123456 289123456 IN IP4 usera.aaa.com
s=Let us talk for while
c=IN IP6 2002::8a55:1b0a #Virtual IPv6 Address of User A
t=0 0
m=audio 20002 RTP/AVP 0
```

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FIG. 20

INVITE PACKET M8

```
DA: 2001:1::100 #User B
SA: 2001:1::1 #IPv6 SIP Server
UDP dst port:5060
UDP src port:5060
----- SIP message -----
INVITE sip:UserB@2001:1::100 SIP/2.0
Via: SIP /2.0/UDP/ bbb.com
Via: SIP/2.0/UDP/ aaa.com
Via: SIP/2.0/UDP/ usera.aaa.com.5060
From: Laura <SIP:UserA@aaa.com>
To: Bob <SIP:UserB@bbb.com>
Call-ID: 12345678@usera.aaa.com
CSeq: 1 INVITE
Contact: Laura <SIP:UserA@usera.aaa.com>
Content-type: application/sdp
Content-length:

v=0
o=UserA 289123456 289123456 IN IP4 usera.aaa.com
s=Let us talk for while
c=IN IP6 2002::8a55:1b0a #Virtual IPv6 Address of User A
t=0 0
m=audio 20002 RTP/AVP 0
```

FIG. 21

180 RINGING PACKET M9

```
DA: 2001:1::1 #IPv6 SIP Server
SA: 2001:1::100 #User B
UDP dst port:5060
UDP src port:5060
----- SIP message -----
SIP/2.0 180 Ringing
Via: SIP /2.0/UDP/ bbb.com
Via: SIP/2.0/UDP/ aaa.com
Via: SIP/2.0/UDP/ usera.aaa.com.5060
From: Laura <SIP:UserA@aaa.com>
To: Bob <SIP:UserB@bbb.com>
Call-ID: 12345678@usera.aaa.com
CSeq: 1 INVITE
Contact: Bob <SIP:UserB@2001:1::100>
```

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FIG. 22

180 RINGING PACKET M10

```
DA: 2002::8a55:1c01 #Virtual IPv6 Address of IPv4 SIP
Server
SA: 2001:1::1 #IPv6 SIP Server
UDP dst port:5060
UDP src port:5060
----- SIP message -----
SIP/2.0 180 Ringing
Via: SIP/2.0/UDP/ aaa.com
Via: SIP/2.0/UDP/ usera.aaa.com.5060
From: Laura <SIP:UserA@aaa.com>
To: Bob <SIP:UserB@bbb.com>
Call-ID: 12345678@usera.aaa.com
CSeq: 1 INVITE
Contact: Bob <SIP:UserB@2001:1::100>
```

FIG. 23

REQUEST PACKET M12

```
DA: 3ffe::1 #Address Translator
SA: 2100::1 #SIP-ALG
UDP dst port:56000
UDP src port:56001
----- USER DATA -----
message: Virtual IPv4 address request
IPv6 Address: 2001:1::100 #IPv6 Address of User B
```

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FIG. 24

RESPONSE PACKET M13

```
DA: 2100::1 #SIP-ALG
SA: 3ffe::1 #Address Translator
UDP dst port:56001
UDP src port:56000
----- USER DATA -----
message: Virtual IPv4 address response
result: OK
Virtual IPv4 Address: 138.90.0.2 # User B
```

FIG. 25

IP (180 RINGING) PACKET M14

<u>DA: 3ffe::1</u> <u>SA: 2100::1</u> <u>UDP dst port: 55001</u> <u>UDP src port: 55000</u>	
	<pre>DA: 2002::8a55:1c01 #Virtual IPv6 Address of IPv4 SIP Server SA: 2001:1::1 #IPv6 SIP Server UDP dst port:5060 UDP src port:5060 ----- SIP message ----- SIP/2.0 180 Ringing Via: SIP/2.0/UDP/ aaa.com Via: SIP/2.0/UDP/ usera.aaa.com.5060 From: Laura <SIP:UserA@aaa.com> To: Bob <SIP:UserB@bbb.com> Call-ID: 12345678@usera.aaa.com CSeq: 1 INVITE Contact: Bob <SIP:UserB@138.90.0.2></pre>

FIG. 26

180 RINGING PACKET M15

```
DA: 138.85.28.1 #IPv4 SIP Server
SA: 138.90.0.1 #Virtual IPv4 Address of IPv6 SIP Server
UDP dst port:5060
UDP src port:5060
----- SIP.message -----
SIP/2.0 180 Ringing
Via: SIP/2.0/UDP/ aaa.com
Via: SIP/2.0/UDP/ usera.aaa.com:5060
From: Laura < SIP:UserA@aaa.com >
To: Bob < SIP:UserB@bbb.com >
Call-ID: 12345678@usera.aaa.com
CSeq: 1 INVITE
Contact: Bob < SIP:UserB@138.90.0.2 >
```

FIG. 27

180 RINGING PACKET M16

```
DA: 138.85.27.10 #User A
SA: 138.85.28.1 #IPv4 SIP Server
UDP dst port:5060
UDP src port:5060
----- SIP.message -----
SIP/2.0 180 Ringing
Via: SIP/2.0/UDP/ usera.aaa.com:5060
From: Laura < SIP:UserA@aaa.com >
To: Bob < SIP:UserB@bbb.com >
Call-ID: 12345678@usera.aaa.com
CSeq: 1 INVITE
Contact: Bob < SIP:UserB@138.90.0.2 >
```

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FIG. 28

200 OK PACKET M17

```
DA: 2001:1::1 #IPv6 SIP Server
SA: 2001:1::100 #User B
UDP dst port:5060
UDP src port:5060
----- SIP message -----
SIP/2.0 200 OK
Via: SIP/2.0/UDP/ bbb.com
Via: SIP/2.0/UDP/ aaa.com
Via: SIP/2.0/UDP/ usera.aaa.com:5060
From: Laura <SIP:UserA@aaa.com>
To: Bob <SIP:UserB@bbb.com>
Call-ID: 12345678@usera.aaa.com
CSeq: 1 INVITE
Contact: Bob <SIP:UserB@2001:1::100>
Content-type: application/sdp
Content-length:

v=0
o=2891234321 2891234321 IN IN6 2001:1::100
s=Let us talk for a while
c=IN IN6 2001:1::100
t=0 0
m=audio 41000 RTP/AVP 0
```

FIG. 29

REQUEST PACKET M20

```
DA: 3ffe::1 #Address Translator
SA: 2100::1 #SIP-ALG
UDP dst port:56000
UDP src port:56001
----- USER DATA -----
message: filter request
Filter Information
Virtual IPv6 address: 2002::8a55:1b0a
IPv6 src address: 2001:1::100, UDP src port: any,
UDP dst port: 20002,20003
Virtual IPv4 address: 138.90.0.2
IPv4 src address: 138.85.27.10, UDP src port: any,
UDP dst port: 41000,41001
```

FIG. 30

RESPONSE PACKET M21

```
DA: 2100::1 #SIP-ALG
SA: 3ffe::1 #Address Translator
UDP dst port:56001
UDP src port:56000
----- USER DATA -----
message: filter response
result: OK
```

FIG. 31

IP (200 OK) PACKET M22

<u>DA: 3ffe::1</u> <u>SA: 2100::1</u> <u>UDP dst port: 55001</u> <u>UDP src port: 55000</u>	DA: 2002::8a55:1c01 #Virtual IPv6 Address of IPv4 SIP Server SA: 2001:1::1 #IPv6 SIP Server UDP dst port:5060 UDP src port:5060 ----- SIP message ----- SIP/2.0 200 OK Via: SIP/2.0/UDP/ aaa.com Via: SIP/2.0/UDP/ usera.aaa.com:5060 From: Laura <SIP:UserA@aaa.com> To: Bob <SIP:UserB@bbb.com> Call-ID: 12345678@usera.aaa.com CSeq: 1 INVITE <u>Contact: Bob <SIP:UserB@138.90.0.2></u> Content-type: application/sdp Content-length: v=0 o=2891234321 2891234321 IN IN4 138.90.0.2 s=Let us talk for a while <u>c=IN IN4 138.90.0.2</u> t=0 0 m=audio 41000 RTP/AVP 0
--	---

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FIG. 32

200 OK PACKET M23

```
DA: 138.85.28.1 #IPv4 SIP Server
SA: 138.90.0.1 #Virtual IPv4 Address of IPv6 SIP Server
UDP dst port:5060
UDP src port:5060
----- SIP message -----
SIP/2.0 200 OK
Via: SIP/2.0/UDP/ aaa.com
Via: SIP/2.0/UDP/ usera.aaa.com:5060
From: Laura < SIP:UserA@aaa.com >
To: Bob < SIP:UserB@bbb.com >
Call-ID: 12345678@usera.aaa.com
CSeq: 1 INVITE
Contact: Bob < SIP:UserB@138.90.0.2 >
Content-type: application/sdp
Content-length:

v=0
o=2891234321 2891234321 IN IN4 138.90.0.2
s=Let us talk for a while
c=IN IN4 138.90.0.2
t=0 0
m=audio 41000 RTP/AVP 0
```

FIG. 33

ACK PACKET M25

```
DA: 138.90.0.2 #User B
SA: 138.85.27.10 #User A
UDP dst port:5060
UDP src port:5060
----- SIP message -----
ACK SIP:UserB@138.90.0.2 SIP/2.0
Via: SIP/2.0/UDP/ usera.aaa.com:5060
From: Laura < SIP:UserA@aaa.com >
To: Bob < SIP:UserB@bbb.com >
Call-ID: 12345678@usera.aaa.com
CSeq: 1 ACK
Contact: Laura < SIP:UserA@usera.aaa.com >
```

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FIG. 34

IP (ACK) PACKET M27

<p><u>DA: 3ffe::1</u> <u>SA: 2100::1</u> <u>UDP dst port: 55001</u> <u>UDP src port: 55000</u></p>
<p>DA: 138.90.0.2 #User B SA: 138.85.27.10 #User A UDP dst port: 5060 UDP src port: 5060 ----- SIP message ----- <u>ACK SIP:UserB@2001:1::100 SIP/2.0</u> Via: SIP/2.0/UDP/ usera.aaa.com:5060 From: Laura <SIP:UserA@aaa.com> To: Bob <SIP:UserB@bbb.com> Call-ID: 12345678@usera.aaa.com CSeq: 1 ACK Contact: Laura <SIP:UserA@usera.aaa.com></p>

FIG. 35

ACK PACKET M28

<p><u>DA: 2001:1::100</u> #User B <u>SA: 2002::8a55:1b0a</u> #Virtual IPv6 Address of User A UDP dst port: 5060 UDP src port: 5060 ----- SIP message ----- ACK SIP:UserB@2001:1::100 SIP/2.0 Via: SIP/2.0/UDP/ usera.aaa.com:5060 From: Laura <SIP:UserA@aaa.com> To: Bob <SIP:UserB@bbb.com> Call-ID: 12345678@usera.aaa.com CSeq: 1 ACK Contact: Laura <SIP:UserA@usera.aaa.com></p>
--

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FIG. 36

IPv4 PACKET D1

```
DA: 138.90.0.2 #Virtual IPv4 Address of User B
SA: 138.85.27.10 #User A
UDP dst port: 41000
UDP src port: 31000
----- RTP data-----
```

FIG. 37

IPv6 PACKET D2

```
DA: 2001:1::100 #User B
SA: 2002::8a55:1b0a #Virtual IPv6 Address of User A
UDP dst port: 41000
UDP src port: 31000
----- RTP data-----
```

FIG. 38

IPv6 PACKET D3

```
DA: 2002::8a55:1b0a #Virtual IPv6 Address of User A
SA: 2001:1::100 #User B
UDP dst port: 20002
UDP src port: 32000
----- RTP data-----
```

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FIG. 39

IPv4 PACKET D4

```
DA: 138.85.27.10 #User A
SA: 138.90.0.2 #Virtual IPv4 Address of User B
UDP dst port: 20002
UDP src port: 32000
----- RTP data -----
```

FIG. 40

IPv4 PACKET D5

```
DA: 138.90.0.2 #Virtual IPv4 Address of User B
SA: 138.85.27.11 #User C
UDP dst port: 41002
UDP src port: 31000
```

FIG. 41

IPv6 PACKET D6

```
DA: 2001:1::101 #User D
SA: 2002::8a55:1b0a #Virtual IPv6 Address of User A
UDP dst port: 20000
UDP src port: 31000
```

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FIG. 42

BYE PACKET M29

```
DA: 138.90.0.2 #Virtual IPv4 Address of User B
SA: 138.85.27.10 #User A
UDP dst port:5060
UDP src port:5060
----- SIP message -----
BYE SIP:UserB@138.90.0.2 SIP/2.0
Via: SIP/2.0/UDP/ usera.aaa.com:5060
From: Laura <SIP:UserA@aaa.com>
To: Bob <SIP:UserB@bbb.com>
Call-ID: 12345678@usera.aaa.com
CSeq: 2 BYE
Contact: Laura <SIP:UserA@usera.aaa.com>
```

FIG. 43

IP (BYE) PACKET M31

```
DA: 3ffe::1
SA: 2100::1
UDP dst port: 55001
UDP src port: 55000
```

```
DA: 138.90.0.2 #User B
SA: 138.85.27.10 #User A
UDP dst port:5060
UDP src port:5060
----- SIP message -----
BYE SIP:UserB@2001:1::100 SIP/2.0
Via: SIP/2.0/UDP/ usera.aaa.com:5060
From: Laura <SIP:UserA@aaa.com>
To: Bob <SIP:UserB@bbb.com>
Call-ID: 12345678@usera.aaa.com
CSeq: 2 BYE
Contact: Laura <SIP:UserA@usera.aaa.com>
```

FIG. 44

BYE PACKET M32

```
DA: 2001:1::100 #User B
SA: 2002::8a55:1b0a #Virtual IPv6 Address of User A
UDP dst port:5060
UDP src port:5060
----- SIP message -----
BYE SIP:UserB@2001:1::100 SIP/2.0
Via: SIP/2.0/UDP/ usera.aaa.com:5060
From: Laura <SIP:UserA@aaa.com>
To: Bob <SIP:UserB@bbb.com>
Call-ID: 12345678@usera.aaa.com
CSeq: 2 BYE
Contact: Laura <SIP:UserA@usera.aaa.com>
```

FIG. 45

200 OK PACKET M33

```
DA: 2002::8a55:1b0a #Virtual IPv6 Address of User A
SA: 2001:1::100 #User B
UDP dst port:5060
UDP src port:5060
----- SIP message -----
SIP/2.0 200 OK
Via: SIP/2.0/UDP/ usera.aaa.com:5060
From: Laura <SIP:UserA@aaa.com>
To: Bob <SIP:UserB@bbb.com>
Call-ID: 12345678@usera.aaa.com
CSeq: 2 BYE
Contact: Bob <SIP:UserB@2001:1::100>
```

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FIG. 46

IP (200 OK) PACKET M35

```
DA: 3ffe::1
SA: 2100::1
UDP dst port: 55001
UDP src port: 55000

DA: 2002::8a55:1b0a #Virtual IPv6 Address of User A
SA: 2001:1::100 #User B
UDP dst port:5060
UDP src port:5060
----- SIP message -----
SIP/2.0 200 OK
Via: SIP/2.0/UDP/ usera.aaa.com:5060
From: Laura < SIP:UserA@aaa.com >
To: Bob < SIP:UserB@bbb.com >
Call-ID: 12345678@usera.aaa.com
CSeq: 2 BYE
Contact: Bob < SIP:UserB@138.90.0.2 >
```

FIG. 47

200 OK PACKET M36

```
DA: 138.85.27.10 #User A
SA: 138.90.0.2 #Virtual IPv4 Address of User B
UDP dst port:5060
UDP src port:5060
----- SIP message -----
SIP/2.0 200 OK
Via: SIP/2.0/UDP/ usera.aaa.com:5060
From: Laura < SIP:UserA@aaa.com >
To: Bob < SIP:UserB@bbb.com >
Call-ID: 12345678@usera.aaa.com
CSeq: 2 BYE
Contact: Bob < SIP:UserB@138.90.0.2 >
```

FIG. 48

REQUEST PACKET M37

```
DA: 3ffe::1 #Address Translator
SA: 2100::1 #SIP-ALG
UDP dst port:56000
UDP src port:56001
----- USER DATA -----
message: virtual address free request
Virtual IPv6 Address: 2002::8a55:1b0a
Virtual IPv4 Address: 138.90.0.2
```

FIG. 49

RESPONSE PACKET M38

```
DA: 2100::1 #SIP-ALG
SA: 3ffe::1 #Address Translator
UDP dst port:56001
UDP src port:56000
----- USER DATA -----
message: virtual address free response
result: OK
```

FIG. 50

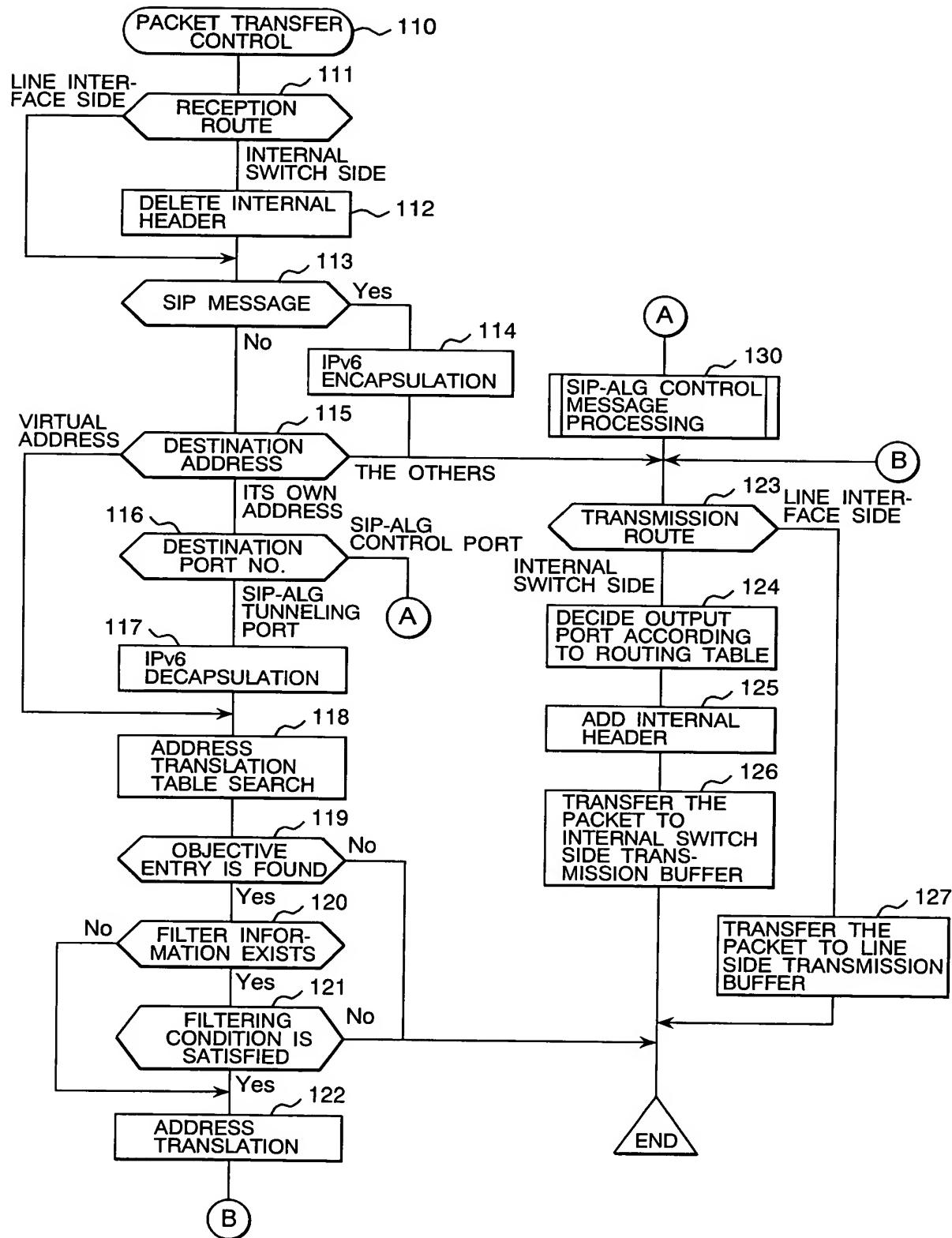


FIG. 51

